

NOMENCLATURAL NOTES FOR THE NORTH AMERICAN FLORA. VI

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ABSTRACT

The following new combinations are proposed: *Artemisia tridentata* Nutt. ssp. *spiciformis* (Osterhout) Kartesz & Gandhi; *Cistanthe parryi* (A. Gray) Hershkovitz var. *arizonica* (J.T. Howell) Kartesz & Gandhi; *Cistanthe parryi* var. *hesseae* (Thomas) Kartesz & Gandhi; *Cistanthe parryi* var. *nevadensis* (J.T. Howell) Kartesz & Gandhi; and *Cistanthe umbellata* (Torr.) Hershkovitz var. *caudicifera* (A. Gray) Kartesz & Gandhi. *Oonopsis foliosa* E. Greene var. *monocephala* (A. Nels.) Kartesz & Gandhi; *Pyrrocoma carthamoides* Hook. var. *cusickii* (A. Gray) Kartesz & Gandhi; *Pyrrocoma hirta* (A. Gray) E. Greene var. *sonchifolia* (E. Greene) Kartesz & Gandhi; *Pyrrocoma linearis* (Keck) Kartesz & Gandhi; *Pyrrocoma lucida* (Keck) Kartesz & Gandhi; *Pyrrocoma racemosa* (Nutt.) Torr. & Gray var. *pinetorum* (Keck) Kartesz & Gandhi; *Pyrrocoma racemosa* var. *paniculata* (Nutt.) Kartesz & Gandhi; *Pyrrocoma uniflora* (Hook.) E. Greene var. *gossypina* (E. Greene) Kartesz & Gandhi; *Solidago simplex* Kunth ssp. var. *randii* (Porter) Kartesz & Gandhi; *Stenotus acaulis* (Nutt.) Nutt. var. *glabratus* (D.C. Eat.) Kartesz & Gandhi; and *Stenotus armerioides* Nutt. var. *gramineus* (Welsh & F.G. Sm.) Kartesz & Gandhi.

KEY WORDS: Floristics, nomenclature, Asteraceae, Portulacaceae, *Artemisia*, *Cistanthe*, *Oonopsis*, *Pyrrocoma*, *Solidago*, and *Stenotus*

INTRODUCTION

Continuing with the "NOMENCLATURAL NOTES FOR THE NORTH AMERICAN FLORA" (Kartesz & Gandhi 1989, 1990a, 1990b, 1990c, 1991), a sixth note in the series is presented here toward advancing our understanding of North American plant names. The data pertaining to type specimens, mentioned in this article, were collected from literature.

ASTERACEAE

Artemisia tridentata ssp. *spiciformis*

In Goodrich, *et al.* (1985), the combination *Artemisia tridentata* Nutt. ssp. *spiciformis* (Osterhout) Goodrich & McArthur, which was based on *A. spiciformis* Osterhout, was proposed in the abstract section of that work. Goodrich, *et al.* used this trinomial in the text and provided a reference (in the literature cited section of their work) to the place of publication of the basionym as: "Osterhout, G.E., 1900. New plants from Colorado. Bull. Torrey Bot. Club 27:506-508." Since the basionym actually appeared on p. 507, and since a page reference must be the page or pages on which the basionym was validly published, but not to the pagination of the whole publication (ICBN Art. 33.2, footnote 1), the new combination remains invalid. The invalidity of their new combination was indicated by Chapman (Taxon 35:767. 1986) and by the Special Committee on valid publication (Taxon 35:768. 1986). Although basionym publication details were provided by Chapman and by the Special Committee, neither indicated the acceptance of this trinomial; hence, the combination must not be attributed to any of them (Art. 34.1a). We accept the trinomial and provide the complete bibliography to validate the new combination.

Artemisia tridentata Nutt. ssp. *spiciformis* (Osterhout) Kartesz & Gandhi, *comb. & stat. nov.* BASYNYM: *Artemisia spiciformis* Osterhout, Bull. Torrey Bot. Club 27:507. 1900. TYPE: U.S.A. Colorado: Larimer Co., North Park, 3 Sep 1899, *Osterhout 2011* (?RM).

Oonopsis, *Pyrrocoma*, and *Stenotus*

The historical treatment and application of the *Haplopappus* Cass. complex has varied widely among North American authors. Lane, *et al.* (1987) considered *Haplopappus* sensu Hall to be an artificial genus. The complex has been viewed to represent a single genus (Torrey & Gray 1842; Hall 1928), two genera, i.e., *Haplopappus* and *Machaeranthera* Nees (Cronquist & Keck 1957; Munz & Keck 1973), or many genera (Rydberg 1906; Correll & Johnston 1970; Turner & Hartman 1976; Clark 1979; Brown & Clark 1982; Turner & Sundberg 1986; Nesom 1989a, 1990; Nesom & Morgan 1990; Nesom, *et al.* 1990). The authors of the third category restrict the application of *Haplopappus* to South America. Nesom & Morgan provided a synopsis of the complex accounting for all sections of North American *Haplopappus* sensu Hall and their current placement. For the North American flora (north of México), we do not recognize *Haplopappus*. The taxa, previously known as *Haplopappus* in the U.S.A., are assigned to the following genera: *Croptilon* Raf., *Ericameria* Nutt., *Hazardia* E. Greene, *Hesperodoria* E. Greene, *Isocoma* Nutt., *Machaeranthera* Nees, *Oonopsis* Nutt., *Prionopsis* Nutt., *Pyrrocoma* Hook., *Stenotus* Nutt., *Tonestus* A. Nels., and *Xylothamia* Nesom, *et al.* The recognition of the above

genera necessitates several new combinations. We propose new combinations in *Oonopsis*, *Pyrocoma*, and *Stenotus*.

Note: Dr. R.A. Mayes (1976), in his Ph.D. dissertation (TEX), proposed several new combinations in *Pyrocoma* at infraspecific ranks. To date, his new combinations remain unpublished and therefore invalid. Our attempts to locate Dr. Mayes have been unsuccessful. Since we plan to use five of his new combinations (*), we considered publishing them on his behalf. But such a publication requires his approval; hence, we reluctantly propose them here along with our own.

Oonopsis foliosa E. Greene var. *monocephala* (A. Nels.) Kartesz & Gandhi, *comb. & stat. nov.* BASIONYM: *Oonopsis monocephala* A. Nels., Bot. Gaz. (Crawfordsville) 31:399. 1901. TYPE: U.S.A. Colorado: 1900, *Archibald 257*.

Pyrocoma carthamoides Hook. var. *cusickii* (A. Gray) Kartesz & Gandhi, *comb. nov.* (*). BASIONYM: *Haplopappus carthamoides* (Hook.) A. Gray var. *cusickii* A. Gray, *Syn. Fl.* 1(2):126. 1884. TYPE: U.S.A. Oregon: Union Co., Jun 1877, *Cusick 445* (GH).

Pyrocoma hirta (A. Gray) E. Greene var. *sonchifolia* (E. Greene) Kartesz & Gandhi, *comb. & stat. nov.* (*). BASIONYM: *Pyrocoma sonchifolia* E. Greene, *Leafl. Bot. Observ. Crit.* 2:18. 1909. TYPE: U.S.A. Washington: Yakima Co., 1882, *Brandege 111* (US).

Pyrocoma linearis (Keck) Kartesz & Gandhi; *comb. & stat. nov.* BASIONYM: *Haplopappus uniflorus* Hook. ssp. *linearis* Keck, *Aliso* 4:103. 1958. TYPE: U.S.A. Idaho: Owyhee Co., 17 Jun 1943, *Christ 14081* (NY).

Note: The grasslike leaves (linear and entire) of *Pyrocoma linearis* warrant specific recognition from *P. uniflora* (Hook.) E. Greene, which has lanceolate or oblanceolate leaves with dentate margins.

Pyrocoma lucida (Keck) Kartesz & Gandhi, *comb. nov.* (*). BASIONYM: *Haplopappus racemosus* Nutt. ssp. *lucidus* Keck, *Madrño* 5:167. 1940. *Haplopappus lucidus* (Keck) Keck, *Aliso* 4:103. 1958. TYPE: U.S.A. California: Plumas Co., 9 Aug 1938, *Keck 4897* (CAS); Isotype: CAS.

Note: Although Keck did not justify elevating *Haplopappus racemosus* ssp. *lucidus* to *H. lucidus*, we assert that the latter taxon with its glandular nature and acuminate-caudate phyllaries is distinct from the former (usually eglandular; phyllaries obtuse-acute).

Pyrocoma racemosa (Nutt.) Torr. & Gray var. **paniculata** (Nutt.) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Homopappus paniculatus* Nutt., Trans. Amer. Philos. Soc. II. 7:331. 1840. *Haplopappus paniculatus* (Nutt.) A. Gray var. *paniculatus* (automatically created by *Haplopappus paniculatus* var. *virgatus* A. Gray). TYPE: U.S.A. Oregon: Union Co., 1836, *Nuttall s.n.* (BM).

Haplopappus paniculatus (Nutt.) A. Gray var. *virgatus* A. Gray, Proc. Amer. Acad. Arts 7:354. 1868. TYPE: U.S.A. California: Mono Co., *Bolander 6168* (GH).

Pyrocoma racemosa (Nutt.) Torr. & Gray var. **pinetorum** (Keck) Kartesz & Gandhi, *comb. & stat. nov. (*)*. BASIONYM: *Haplopappus racemosus* (Nutt.) Torr. & Gray ssp. *pinetorum* Keck, Madroño 5:166. 1940. TYPE: U.S.A. California: Siskiyou Co., 8 Aug 1938, *Keck 4862* (CAS).

Pyrocoma uniflora (Hook.) E. Greene var. **gossypina** (E. Greene) Kartesz & Gandhi, *comb. & stat. nov. (*)*. BASIONYM: *Pyrocoma gossypina* E. Greene, Pittonia 3:23. 1898. TYPE: U.S.A. California: San Bernardino Co., Aug 1882, *Parish 1558* (US).

Stenotus acaulis (Nutt.) Nutt. var. **glabratus** (D.C. Eat.) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Haplopappus acaulis* (Nutt.) A. Gray *glabratus* D.C. Eat. in S. Watson, Botany [fortieth parallel] 161. 1871. *Chrysopsis caespitosus* Nutt., J. Acad. Nat. Sci. Philadelphia 7:33. 1834. *Stenotus caespitosus* (Nutt.) Nutt., Trans. Amer. Philos. Soc. II. 7:334. 1841. TYPE: U.S.A. Missouri River (PH; fiche !).

Stenotus armerioides Nutt. var. **gramineus** (Welsh & F.G. Sm.) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Haplopappus armerioides* (Nutt.) A. Gray var. *gramineus* Welsh & F.G. Sm., Great Basin Naturalist 43:371. 1982. TYPE: U.S.A. Utah: Uintah Co., 29 May 1982, *Thorne & Neely 1836* (BRY); Isotypes: NY, CAS.

Solidago simplex var. *randii*

Nesom (1989b) reported that *Solidago glutinosa* Nutt. (Trans. Amer. Philos. Soc. II. 7:328. 1841) and *S. simplex* Kunth (in H.B.K., *Nov. Gen. et Sp.* 4:163. 1820) are conspecific. In *S. simplex*, Ringius (in Ringius & Semple 1991) made seven new combinations including *S. simplex* ssp. *randii* (Porter) Ringius. Since we recognize the preceding taxon at varietal rank, a new combination is proposed below.

***Solidago simplex* Kunth var. *randii* (Porter) Kartesz & Gandhi, ssp. et var. comb. nov.** BASIONYM: *Solidago virgaurea* L. var. *randii* Porter,

Bull. Torrey Bot. Club 20:208. 1893. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq., Rhodora 49:77. 1947. *Solidago glutinosa* Nutt. var. *randii* (Porter) Cronq., Rhodora 49:77. 1947. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Ringius, Phytologia 70:397. 1991. LECTOTYPE (vide Ringius, Taxon 36:156. 1987): U.S.A. Maine: Mt. Desert Island, 30 Aug 1892, *Rand s.n.* (NY).

PORTULACACEAE

We accept Hershkovitz' (1990) segregation of the genus *Cistanthe* Spach from the genus *Calandrinia* Kunth and his inclusion of the genus *Calyptridium* Nutt. in *Cistanthe*. Four additional new combinations are required and made below.

Cistanthe parryi (A. Gray) Hershkovitz var. *arizonica* (J.T. Howell) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Calyptridium parryi* A. Gray var. *arizonicum* J.T. Howell, Leafl. West. Bot. 4:215. 1945. TYPE: U.S.A. Arizona: Piipa Co., Hills above Rosemont, 13 Mar-23 Apr 1903, *Griffiths* (US).

Cistanthe parryi (A. Gray) Hershkovitz var. *hesseae* (Thomas) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Calyptridium parryi* A. Gray var. *hesseae* Thomas, Leafl. West. Bot. 8:10. 1956. TYPE: U.S.A. California: Santa Cruz Co., Ben Lomond Mountains, 2 Jul 1954, *Hesse 1317* (CAS).

Cistanthe parryi (A. Gray) Hershkovitz var. *nevadensis* (J.T. Howell) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Calyptridium parryi* A. Gray var. *nevadense* J.T. Howell, Leafl. West. Bot. 4:216. 1945. TYPE: U.S.A. Nevada: Gold Mt., 23 Jun 1930, *Keck 559* (CAS).

Cistanthe umbellata (Torr.) var. *caudicifera* (A. Gray) Kartesz & Gandhi, *comb. nov.* BASIONYM: *Spraguea umbellata* Torr. var. *caudicifera* A. Gray (in Patterson, *Numb. Checkl. N. Amer. Pl.* 14. 1892, *nom. nud.*). *Syn. Fl.* 1:278. 1897. *Calyptridium umbellatum* (Torr.) E. Greene var. *caudiciferum* (A. Gray) Jepson, *Fl. Calif.* 1:465. 1914.

Note: Typification of Gray's trinomial is under our investigation.

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